

The following catalog
has gaps in its page
numbers, or doesn't
have any numbers.
We have chosen to
leave the page
numbering in the
order that Acrobat
assigns it.

McGRAW-EDISON

Onan

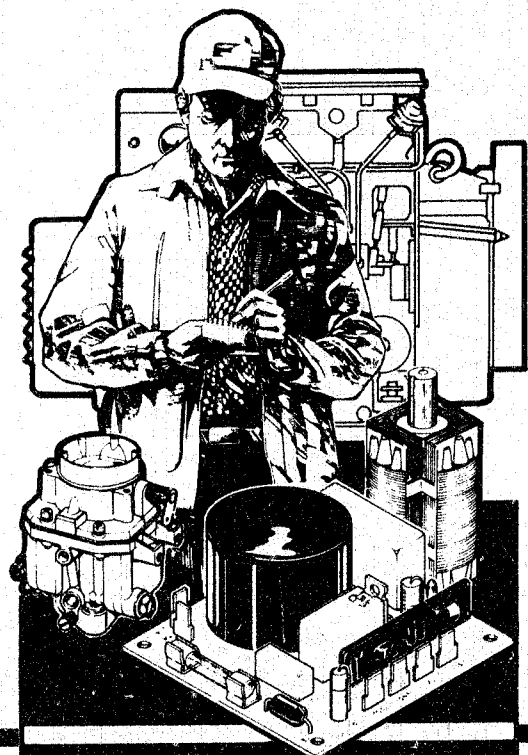
Parts Manual

OTII

150-260 Amp

Transfer Switch

Specification E

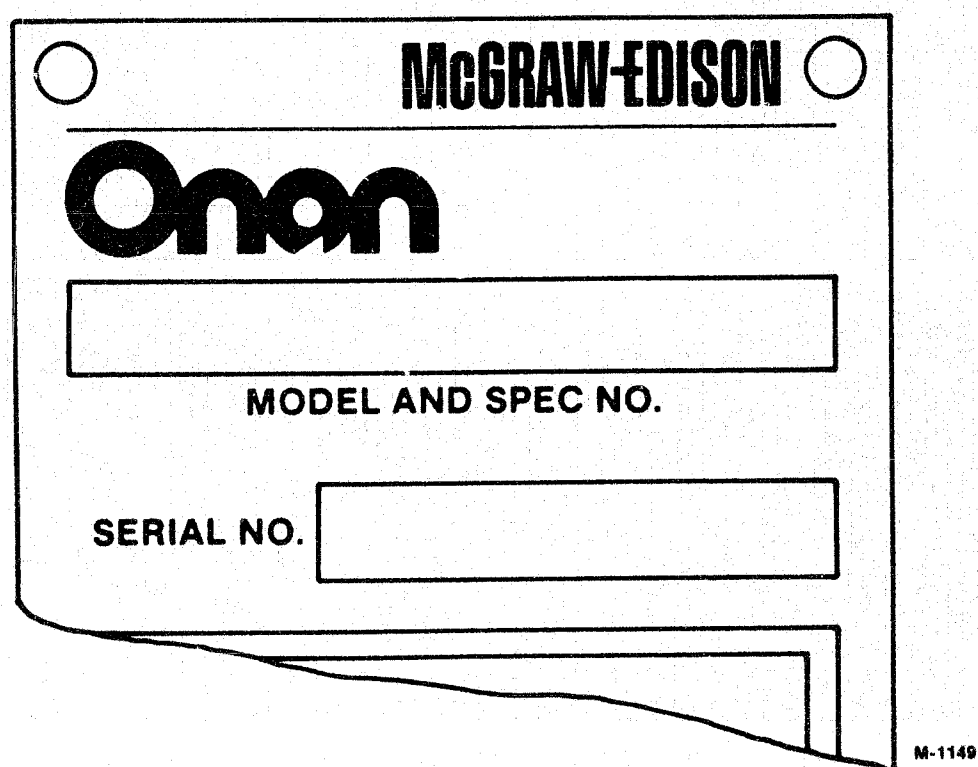


Onan Service Parts

GENERAL INFORMATION

For parts or service, contact the dealer from whom you purchased this equipment or refer to your Near Authorized Onan Parts and Service Center.

To avoid errors or delay in filling your parts order, always give the MODEL, SPEC NO. and SERIAL NO. from Onan nameplate.



The form is a rectangular card with a black border. At the top, the text "McGRAW-EDISON" is printed in a bold, sans-serif font, flanked by two small circles. Below this, the "Onan" logo is prominently displayed in a stylized, bold font. Underneath the logo is a large, empty rectangular box. Below this box, the text "MODEL AND SPEC NO." is printed. Further down, the text "SERIAL NO." is printed to the left of another empty rectangular box. The bottom right corner of the card features the code "M-1149".

McGRAW-EDISON

Onan

MODEL AND SPEC NO.

SERIAL NO.

M-1149

For handy reference, insert "YOUR" nameplate information in the spaces above.

INDEX

Actuator, Linear	A8
Bar, Neutral	B4
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INTRODUCTION

This catalog applies to the OTII 150 and 260 Amp (Specification E) Transfer Switches as indicated below. Each illustrated part is identified by a reference number corresponding to the same reference number in the parts list for that group. Parts illustrations are typical. Using the MODEL and SPEC NUMBER from the switch box nameplate, select the parts that apply to your transfer switch. Unless otherwise mentioned in the description, parts are interchangeable between models.

EXPLANATION

	OT	A	C	A	150-3	U/31	03	E
<u>PAGE</u>								
Series								
Transfer Switch Code								
Control Code								
Cabinet Code								
Ampere Rating								
Voltage Code								
Standard Code								
Control Assembly								
Meter Group								

DIRECTIONS

1. Locate the item you are looking for in the Index or the Table of Contents.
2. Turn to the page listed.
3. Mentally insert your model number in the blank space
4. The part of the model number that is boxed, will help you to determine the part number that you need.
5. Match your model number to the appropriate box.
6. Follow the line down from the box.
7. If there is more than one box, follow in sequence according to (a), (b), (c).
8. Write down the respective part number.

TRANSFER
SWITCH

OT

(a) (b)

150

Transfer
Switch

1	51		
3	53		
4	54		
5D	55D		
4X	54X		
7	7X	57	57X
9X	59X		

306-2434

306-2440

306-2439

306-2441

306-2444

306-2443

306-2442

260

1	51		
3	53		
4	54		
5D	55D		
4X	54X		
7	7X	57	57X
9X	59X		

306-2447

306-2453

306-2452

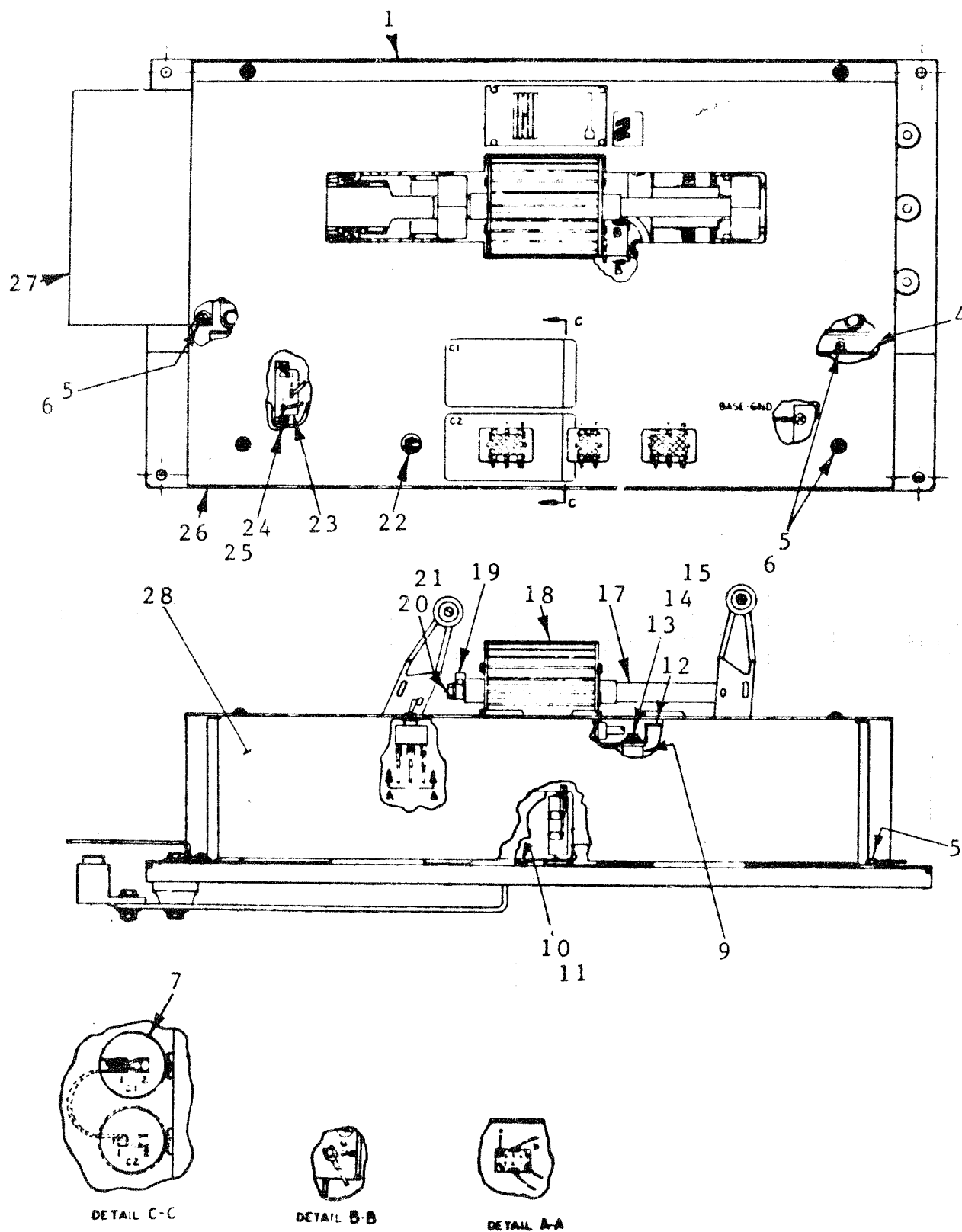
306-2454

306-2457

306-2456

306-2455

TRANSFER SWITCH



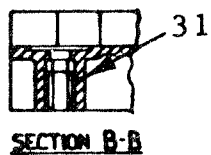
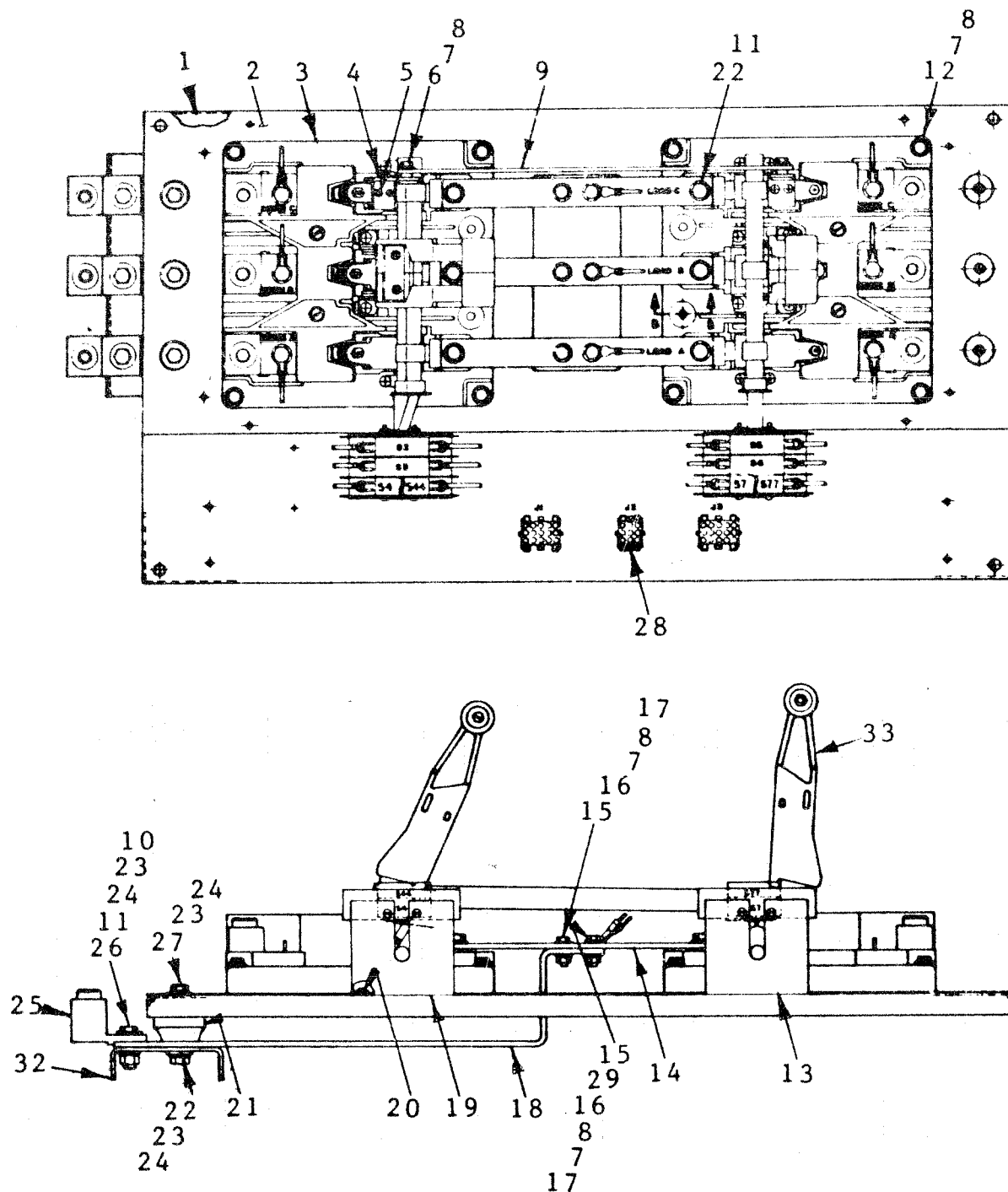
TRANSFER
SWITCH

REF.
NO. PART NO. QTY. PART
DESCRIPTION

1	See Tab	1	Switch Assembly
4	306-2362	1	Barrier
5	815-0364	12	Screw-RH XREC W/ET(#10-32x1)
6	526-0008	8	Washer-Flat(#10)
7	See Tab	Tab	Capacitor
9	306-2351	4	Spacer-Actuator
10	815-0163	Tab	Screw-FH(#10-32x5/8)
11	855-0008	Tab	Washer-ET CST LK(#10)
12	306-2340	2	Barrier
13	800-0021	4	Screw-HHC(1/4-20x4 1/2)
14	850-0040	4	Washer-LK(1/4)
15	526-0018	4	Washer-Flat(1/4)
17	306-2359	1	Rod-Actuator
18	See Tab	1	Actuator-Linear(8 coil)
19	306-2266	2	Rod End Assy-Actuator
20	800-0028	2	Screw-HHC(5/16-18x1)
21	850-0045	2	Washer-LK(5/16)
22	308-0406	1	Switch-Toggle DPDT
23	See Tab	1	Circuit Breaker
24	812-0063	2	Screw-RH(#6-32x1/2)
25	853-0003	2	Washer-ET LK(#6)
26	See Tab	1	Cover and Silkscreen
27	306-2977	1	Cover and Silkscreen(load)
28	306-2299	1	Bracket-Plug
30	524-0157	1	Compound-Insul and Lube

TRANSFER SWITCH	ITEM #1	ITEM #7	QTY	ITEM #10	ITEM #11	ITEM #18	ITEM #23	ITEM #26
306-2434	306-2974	312-0227	1	2	2	306-2308	320-0612	306-2433
306-2439	306-2396	312-0237	1	2	2	306-2310	320-0609	306-2432
306-2440	306-2420	312-0218	1	2	2	306-2311	320-0609	306-2433
306-2441	306-2396	312-0218	1	2	2	306-2311	320-0609	306-2432
306-2442	306-2396	312-0236	2	4	4	306-2312	320-0608	306-2432
306-2443	306-2396	312-0247	2	4	4	306-2313	320-0608	306-2432
306-2444	306-2396	312-0205	2	4	4	306-2314	320-0606	306-2432
306-2447	306-2975	312-0227	1	2	2	306-2308	320-0612	306-2432
306-2452	306-2397	312-0237	1	2	2	306-2310	320-0609	306-2432
306-2453	306-2421	312-0218	1	2	2	306-2311	320-0609	306-2433
306-2454	306-2397	312-0218	1	2	2	306-2311	320-0609	306-2432
306-2455	306-2397	312-0236	2	4	4	306-2312	320-0608	306-2432
306-2456	306-2397	312-0247	2	4	4	306-2313	320-0608	306-2432
306-2457	306-2397	312-0205	2	4	4	306-2314	320-0606	306-2432

SWITCH
ASSEMBLY



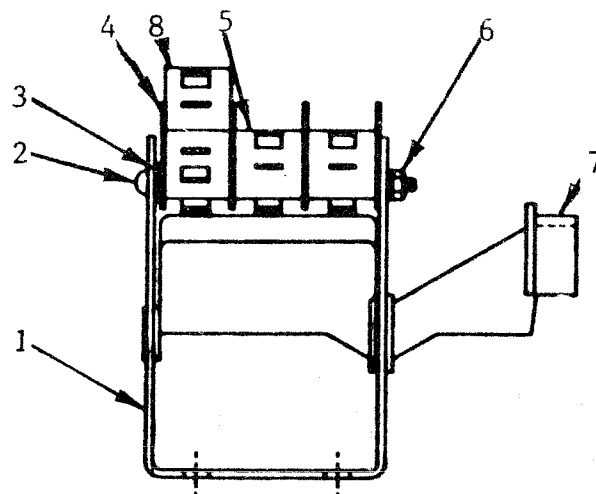
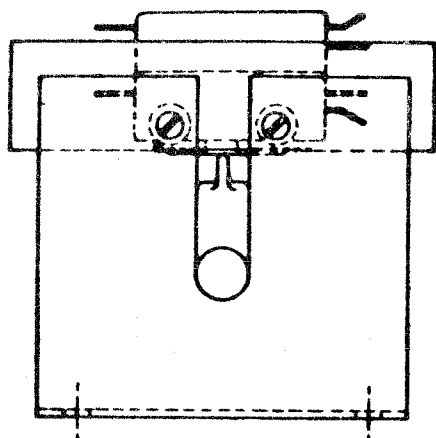
SECTION B-B

SWITCH
ASSEMBLY

REF. NO.	306-2396 AND 306-2397	QTY	306-2420 AND 306-2421	QTY	306-2974 AND 306-2975	QTY	PART DESCRIPTION
1	306-2361	1	306-2361	1	306-2361	1	Base-Switch Mounting
2	306-2360	1	306-2360	1	306-2360	1	Barrier-Mounting Block
3	See Tab	2	See Tab	2	See Tab	2	Block and Cross Bar Assy
4	306-0508	2	306-0508	2	306-0508	2	Arm-Interlock Assembly
5	815-0446	4	815-0446	4	815-0446	4	Screw-RH XREC W/IT(#8-32x1/2)
6	800-0003	2	800-0004	2	800-0003	2	Screw-HHC(1/4-20x5/8)
7	850-0040	16	850-0040	14	850-0040	14	Washer-LK(1/4)
8	526-0018	16	526-0018	14	526-0018	14	Washer-Flat(1/4)
9	306-0274	1	306-0274	1	306-0274	1	Switch-Interlock Bar
10	862-0015	3	862-0015	2	862-0015	2	Nut-HEX(5/16-18)
11	851-0028	9	851-0028	6	851-0028	6	Washer-Spring(Conical)(5/16)
12	800-0009	8	800-0009	8	800-0009	8	Screw-HHC(1/4-20x1 1/2)
13	306-2395	1	306-2395	1	306-2395	1	Switch Assy-Aux(Emer)
14	337-1057	3	337-1057	2	337-1057	2	Strap-Jumper
15	800-0007	6	800-0007	4	800-0007	4	Screw-HHC(1/4-20x1)
16	851-0027	6	851-0027	4	851-0027	4	Washer-Spring(Conical)(1/4)
17	862-0001	6	862-0001	4	862-0001	4	Nut-HEX(1/4-20)
18	337-1058	3	337-1058	2	337-1058	2	Strap-Load
19	306-2394	1	306-2394	1	306-2394	1	Switch Assy-Aux(Norm)
20	815-0449	8	815-0449	8	815-0449	8	Screw-RH XREC W/ET(#8-32x3/4)
21	332-2305	3	332-2305	2	332-2305	2	Standoff-Insulator
22	800-0027	9	800-0027	6	800-0027	6	Screw-HHC(5/16-18x7/8)
23	850-0045	9	850-0045	6	850-0045	6	Washer-LK(5/16)
24	526-0045	9	526-0045	6	526-0045	6	Washer-Flat(5/16)
25	See Tab	3	See Tab	2	See Tab	2	Lug-Solderless
26	800-0030	3	800-0030	2	800-0031	2	Screw-HHC(5/16-18x1 1/2)
27	800-0026	3	800-0026	2	800-0026	2	Screw-HHC(5/16-18x3/4)
28	338-1511	1	338-1512	1	338-1557	1	Wiring Harness
29	332-2462	3	332-2462	2	332-2462	2	Terminal-Ring
30	518-0341	1	518-0341	1	518-0341	1	Compound-Joint(Elec)
31	870-0394	4	870-0394	4	870-0394	4	Spacer-Threaded HEX(1/4-20)
32	306-2980	4	306-2980	4	306-2980	1	Support-Channel
33	306-1842	1	306-1842	1	306-1842	1	Handle Assy-Actuator

SWITCH ASSY	ITEM #3	ITEM #25
306-2396	306-2367	332-1480
306-2397	306-2368	332-2442
306-2420	306-2369	332-1480
306-2421	306-2370	332-2442
306-2974	306-2369	332-1480
306-2975	306-2370	332-2442

AUXILIARY
SWITCH
ASSEMBLY

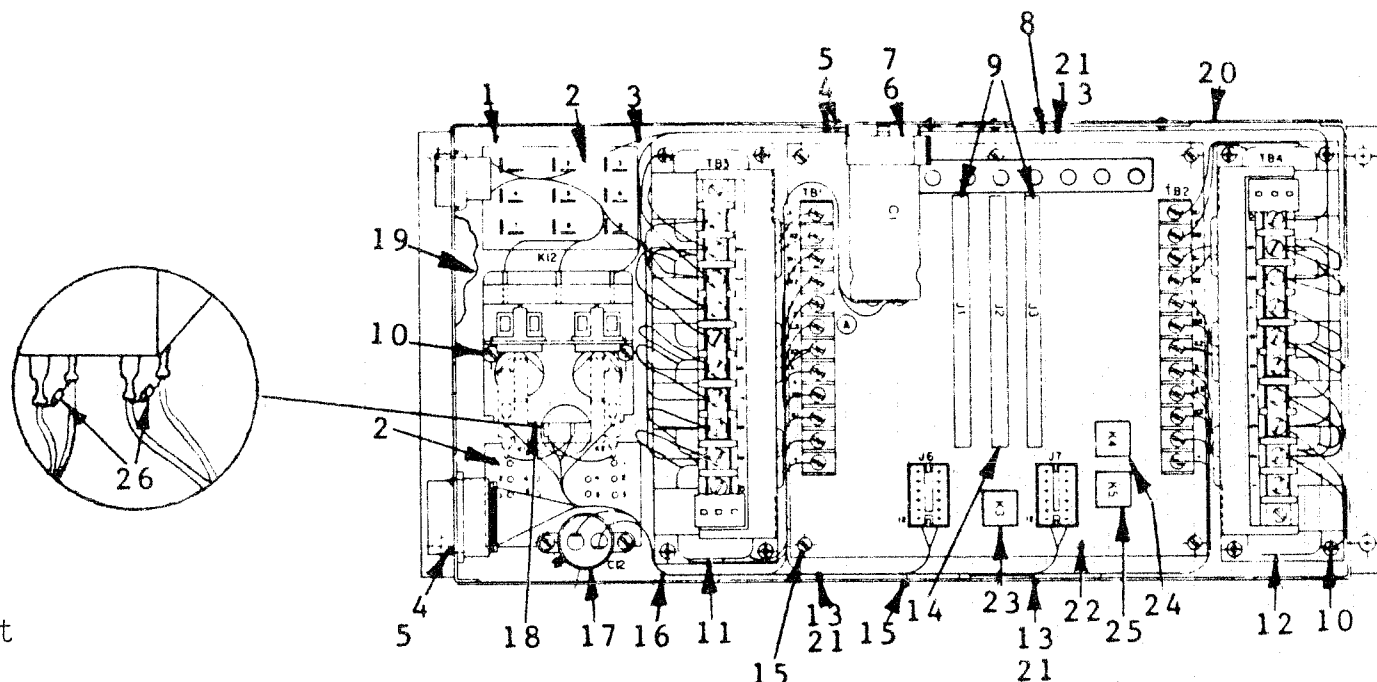


REF. NO.	PART NO.	QTY	PART DESCRIPTION
1	306-2356	1	Bracket-Aux Switch
2	812-0199	2	Screw-RHM(#6-32x2 1/2)
3	526-0002	4	Washer-Flat(#6)
4	306-1987	4	Barrier-Switch
5	309-0393	2	Switch-Snap Action
6	870-0183	2	Nut-HEX W/ET LW(#6-32)
7	306-2261	1	Lever-Aux Switch
8	309-0506	1	Switch-Snap Action

COMPLETE SWITCH	SIDE
306-2394	Normal
306-2395	Emergency

CONTROL ASSEMBLY

OT



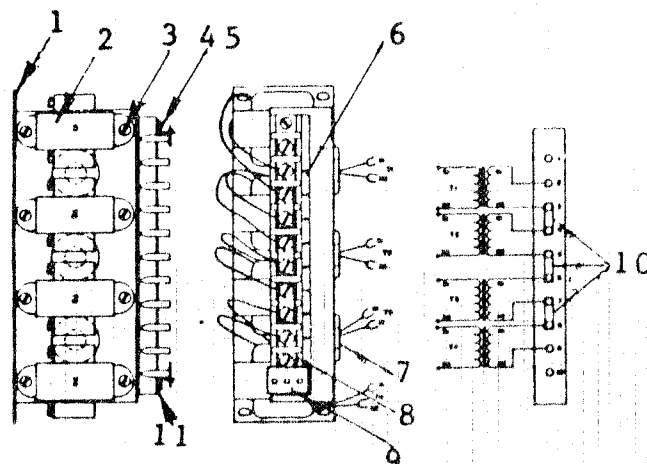
* Does not
include
Voltage
Sensor
Modules

	CONTROL* ASSEMBLY	TAB 11	TAB 12	TAB 3
	1 300-2772	315-0498	315-0498	338-1435
	3 300-2773	315-0538	315-0548	338-1435
4 5D	8 300-2774	315-0493	315-0493	338-1435
	523 300-2775	315-0494	315-0494	338-1435
	7 7X 300-2776	315-0510	315-0510	338-1435
	4X 300-2777	315-0495	315-0495	338-1435
	9X 300-2879	315-0496	315-0496	338-1809

TAB 11,12	TAB 2	QTY
315-0492	315-0481	4
315-0493	315-0482	4
315-0494	315-0483	4
315-0495	315-0484	4
315-0496	315-0485	4
315-0498	315-0481	4
315-0499	315-0482	4
315-0500	315-0483	4
315-0510	315-0509	4
315-0538	315-0482	4
315-0548	315-0482	4
315-0597	315-0484	4

REF. NO.	PART NO.	QTY.	PART DESCRIPTION
1	301-6177	1	Base-Universal Control
2	98-4323	1	Silkscreen(Base)
3	See Tab	1	Wiring Harness(High Voltage)
4	812-0061	9	Screw-RD HD(#6-32x3/8)
5	870-1183	9	Nut-HW/ET(#6-32)
6	356-0108	1	Capacitor(C1)
7	356-0070	1	Clamp-Capacitor Mounting
8	301-6217	1	Window-Display
9	REF	2	Module-Voltage Sensor
10	815-0544	10	Screw-Pan HW/ET(#6-32x3/8)
11	See Tab	1	Transformer Assy(Normal)
12	See Tab	1	Transformer Assy(Emergency)
13	332-0942	3	Tie-Cable
14	300-2372	1	Module-Time Delay
15	815-0549	20	Screw-HW/ET(#6-32x1/4)
16	338-1434	1	Wiring Harness(Low Voltage)
17	356-0097	1	Filter Assy(C12)
18	307-1903	1	Contacting-Reversing
19	301-6661	1	Cover and Silkscreen(Ctrl)
20	301-6662	1	Wrapper and Silkscreen
21	332-2420	3	Mount-Tie Cable
22	300-2109	1	Board Assy-Mother
23	307-2089	1	Relay-TD Start(K3)
24	307-2319	1	Relay-Alt. Source Fail(K4)
25	307-2010	1	Relay-Retransfer(K5)(Option)
26	357-0057	2	Diode(comes with 338-1434)
27	98-5387	1	Label-Danger(Not Illustrated)

REF. NO.	PART NO.	QTY.	PART DESCRIPTION
1	301-6132	1	Bracket-Transformer Mtg.
2	See Tab	Tab	Transformer-Stepdown
3	815-0549	8	Screw-Pan H REC W/ET(6-32x1/4)
4	812-0066	2	Screw-RHM(6-32x3/4)
5		2	Clips(Part of item #9)
6	332-2588	1	Marker Strip
7	508-0008	3	Grommet
8	332-2587	1	Terminal Block
9	332-2589	1	Cover-Protective
10	332-1045	3	Jumper
11	526-0001	2	Washer-Flat



VOLTAGE
SENSOR
MODULE

0° _____ - _____ / _____

NORMAL SIDE SENSING	Ø	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46
Under Voltage	1	A	A	A		A											
	3	A	A	A		A											
Under/Over Voltage	1													B	B	B	B
	3													B	B	B	B
Under Voltage and Freq	1						C	C	C	C							
	3						C	C	C	C							
Under/Over Volt and Freq	1				E						D	D	D				
	3				D						D	D	D				
EMERGENCY SIDE SENSING	Ø	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46
Under Voltage	1	A									A			A			
	3	A									A			A			
Under/Over Voltage	1					B				B			B				B
	3					B				B			B				B
Under Voltage and Freq	1		C					C				C			C		
	3		C					C				C			C		
Under/Over Volt and Freq	1			E	E		D		D							D	
	3			D	D		D		D							D	

CODE MODULE

A- 300-2375

B- 300-2788

C- 300-2548

D- 300-2373

E- 300-2758

CONTROL ASSEMBLY

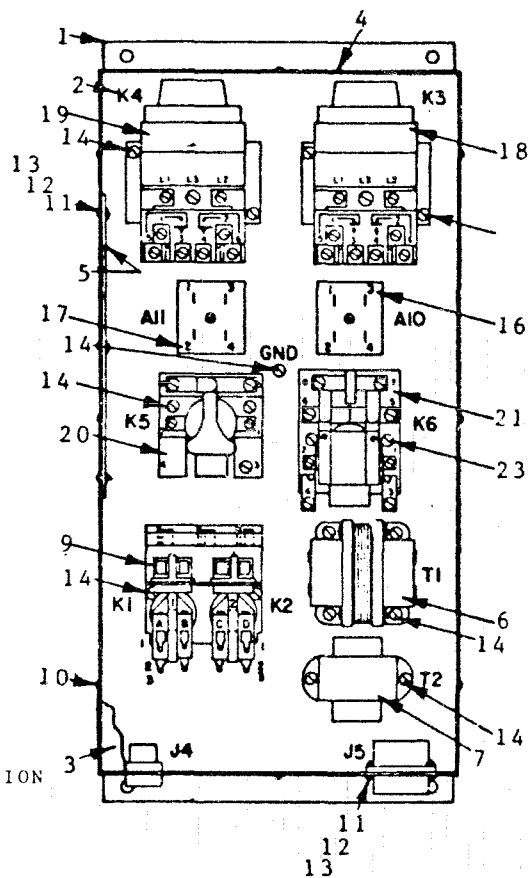
OT

(a)

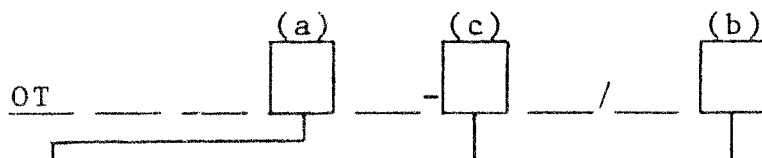
(b)

VOLTAGE	DASH NO.
1	-01
4	-02
3	-03
5D 8	-04
4X 7 7X	-05
9X	-06

REF. NO.	56	57	58	QTY.	PART DESCRIPTION
1	301-6297	301-6297	301-6297	1	Base
2	98-4447	98-4447	98-4447	1	Silkscreen
3	301-6178	301-6178	301-6178	1	Cover
4	301-6179	301-6179	301-6179	1	Wrapper
5	301-6217	301-6217	301-6217	1	Window
6	315-0004			1	Transformer(-03)
	315-0014			1	Transformer(-04)
		315-0004	315-0004	1	Transformer(-05)
		315-0014	315-0014	1	Transformer(-06)
7	315-0036			1	Transformer(-03)
	315-0067			1	Transformer(-04)
		315-0036	315-0036	1	Transformer(-05)
		315-0067	315-0067	1	Transformer(-06)
8	338-1434			1	Wiring Harness
		338-1478	338-1478	1	Wiring Harness(-01,-03)
		338-1477	338-1477	1	Wiring Harness(-02,-04,-05,-06)
9	307-1958			1	Contactor-Reversing(-01,-03)
	307-1870			1	Contactor-Reversing(-02)
		307-1958	307-1958	1	Contactor-Reversing(-01,-05,-06)
		307-1870	307-1870	1	Contactor-Reversing(-02,-03,-04)
10	812-0059	812-0059	812-0059	10	Screw-RHM(#6-32x1/4)
11	812-0061	812-0061	812-0061	7	Screw-RHM(#6-32x3/8)
12	853-0003	853-0003	853-0003	7	Washer-ET LK(#6)
13	860-0006	860-0006	860-0006	7	Nut-HMS(#6-32)
14	812-0077			8	Screw-RHM(#8-32x3/8)
		812-0077	812-0077	13	Screw-RHM(#8-32x3/8)
15	332-0556			1	Splice-Line Tab
		332-0556	332-0556	1	Splice-Line Tab(-05,-06)
16			300-2627	1	Relay-T.D. Stop(-01,-05,-06)
			300-2628	1	Relay-T.D. Stop(-02,-03,-04)
			300-2629	1	Relay-T.D. Transfer(-01,-05,-06)
			300-2630	1	Relay-T.D. Transfer(-02,-03,-04)
18		307-1108	307-1108	1	Relay-T.D. Start(-01,-05,-06)
		307-1109	307-1109	1	Relay-T.D. Start(-02,-03,-04)
19		307-1955	307-1955	1	Relay-T.D. Ret.(-01,-05,-06)
		307-1956	307-1956	1	Relay-T.D. Ret.(-02,-03,-04)
20		307-1114	307-1114	1	Relay-Line Voltage(-02)
		307-1081	307-1081	1	Relay-Line Voltage(-04)
		307-1119	307-1119	1	Relay-Line Voltage(-05)
		307-1425	307-1425	1	Relay-Line Voltage(-06)
21		307-1082	307-1082	1	Relay-Generator Voltage(-01)
		307-1113	307-1113	1	Relay-Generator Voltage(-02)
		307-1083	307-1083	1	Relay-Generator Voltage(-03,-04)
		307-1887	307-1887	1	Relay-Generator Voltage(-05)
		307-2114	307-2114	1	Relay-Generator Voltage(-06)
22		812-0083	812-0083	2	Screw-RHM(#8-32x7/8)
23		812-0079	812-0079	2	Screw-RHM(#8-32x1/2)
24	98-5387	98-5387	98-5387	1	Label-Danger(Not Illustrated)



METER
GROUP



A	E	01	02	03	04	05	06	11
---	---	----	----	----	----	----	----	----

Normal Lamp(White)

Emergency Lamp(Yellow)

B	D	01	02	03	04	05	06	11
---	---	----	----	----	----	----	----	----

Normal Lamp(White)

Emergency Lamp(Amber)

A	B	01	02	03	04	05	06	11
---	---	----	----	----	----	----	----	----

D	E
---	---

Light Bulb

Resistor

Resistor

Resistor

Resistor

C	01	02	03	04	05	06	11
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Normal Lamp(Green)

Emergency Lamp(Red)

Normal Lamp(Green)

Emergency Lamp(Red)

Normal Lamp(Green)

Emergency Lamp(Red)

A	B	02	03	06	07	09	10
---	---	----	----	----	----	----	----

C	D
---	---

Voltmeter

E

Voltmeter

Voltmeter

Voltmeter

03	05	06	07	08	09	10
----	----	----	----	----	----	----

Frequency Meter

Frequency Meter

Frequency Meter

Frequency Meter

Frequency Meter

Frequency Meter

Transformer-Stepdown

03	04	05	07	08
----	----	----	----	----

Running Time Meter

Running Time Meter

Running Time Meter

Running Time Meter

Transformer-Stepdown

03	06	07	10	11
----	----	----	----	----

Ammeter(150 Amp)

Ammeter(260 Amp)

1	3	4	4X	5D	7	7X	8	9X
1	3	4	4X	5D	7	7X	8	9X

1	3	4	4X	5D	7	7X	8	9X
1	3	4	4X	5D	7	7X	8	9X

1	3	4	4X	5D	7	7X	8	9X
1								
3	4	5D	7	7X	8			
4X								
9X								

1								
1								
3	4	5D	8					
3	4	5D	8					
4X	7	7X						
4X	7	7X						

1	51							
3	4	5D	53	54	55D			
4X	7	7X	54X	57	57X			
9X	59X							

1	4X	9X						
4								
3	5D	7	7X	8				
51	54X	59X						
54								
53	55D	57	57X	58				
4X	54X	9X	59X					

1	4X	9X						
3	4	5D	7	7X	8			
51	54X	59X						
53	54	55D	57	57X	58			
4X	54X	9X	59X					

1	3	4	4X	5D	7	7X	8	9X
1	3	4	4X	5D	7	7X	8	9X

PART NO.

322-0318

322-0317

322-0235

322-0233

322-0316

350-1204

350-1205

350-1206

350-1207

322-0243

322-0242

322-0249

322-0248

322-0255

322-0254

302-0420

302-0421

302-0422

302-0423

302-0809

302-0810

302-0811

302-0893

302-0894

302-0895

315-0377

302-0465

302-0466

302-0468

302-0469

315-0377

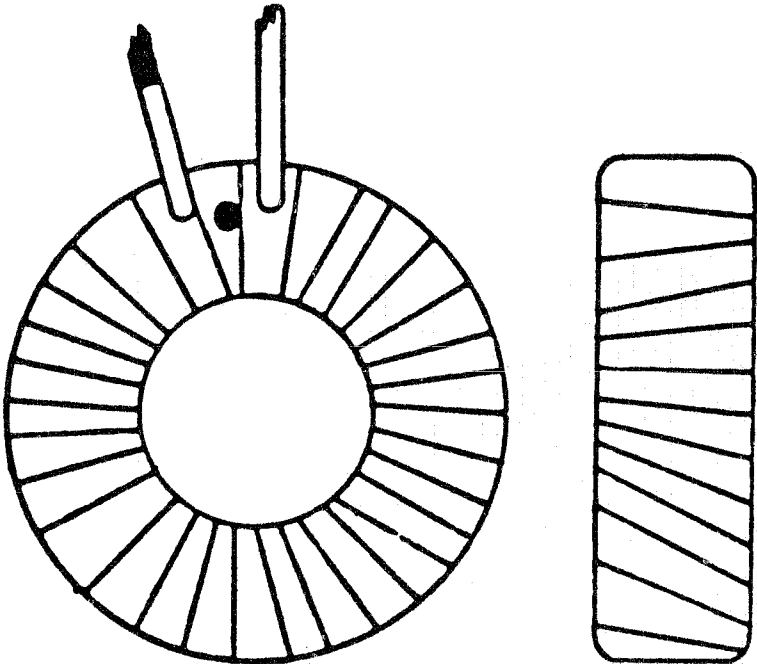
302-0410

302-0413

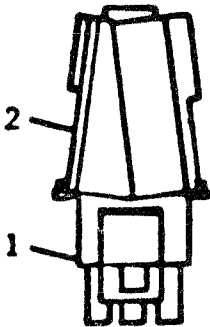
CURRENT
TRANSFORMER

OT - /

150	302-1392
260	302-1393



BYPASS
PLUG



REF. NO.	PART NO.	QTY.	PART DESCRIPTION
1	323-1201	1	Connector-Plug Housing
2	323-1208	2	Strain Relief

CONTACT
BLOCK

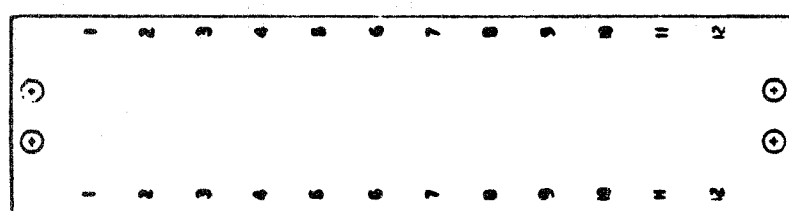
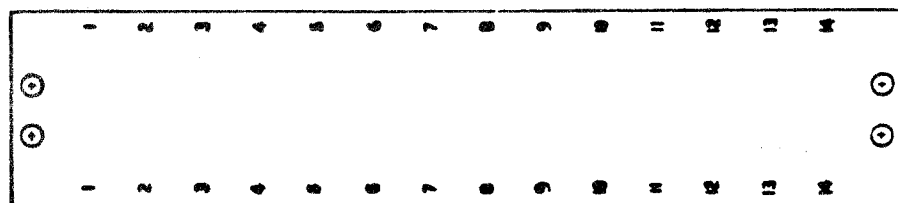
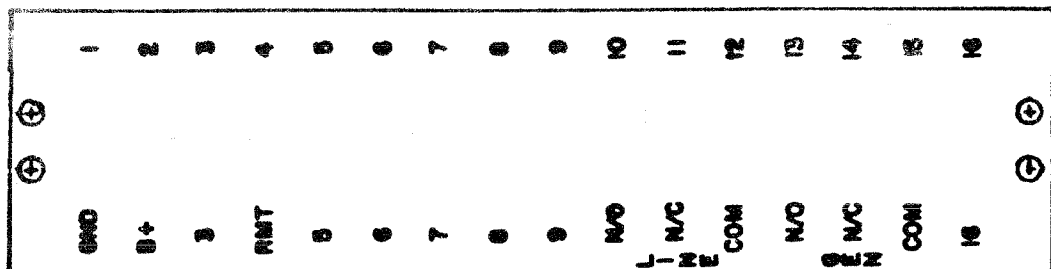


- 308-0579 (Normal Open)
- 308-0580 (Normal Closed)

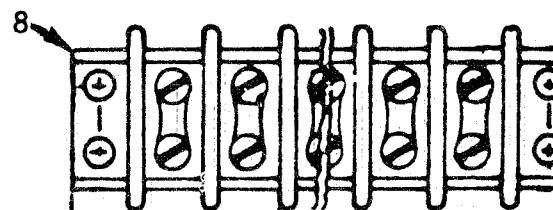
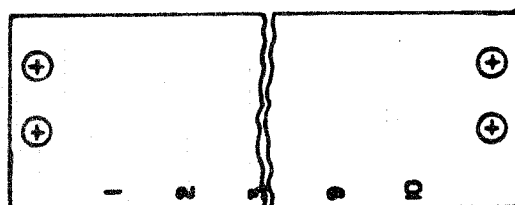
TERMINAL
BLOCK

OT _____ - _____ /

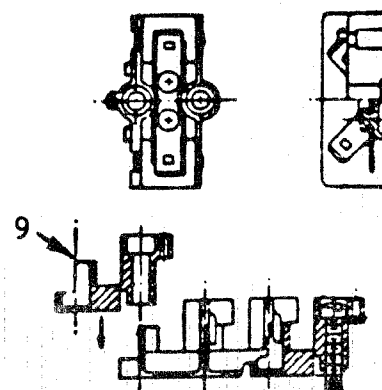
31	32	33	34
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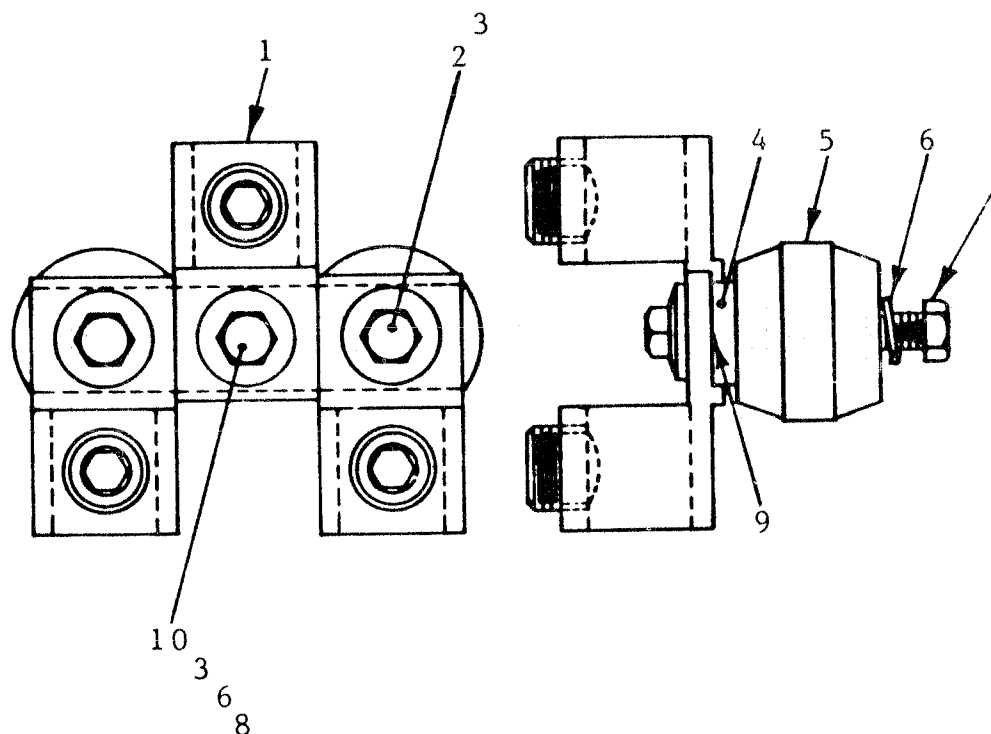
91	92	93
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REF. NO.	PART NO.	QTY.	PART DESCRIPTION
1	332-2425	1	Strip-Marker
2	332-0795	1	Block-Terminal(16 Term.)
3	332-1698	1	Strip-Marker
4	332-1697	1	Block-Terminal(14 Term.)
5	332-1469	1	Strip-Marker
6	332-1468	1	Block-Terminal(12 Term.)
7	332-2563	1	Strip-Marker
8	332-2562	1	Block-Terminal(10 Term.)
9	332-2648	1	Block-Terminal(Sectional)



EUTRAL
AR



REF. NO.	PART NO.	QTY.	PART DESCRIPTION
1	332-2442	3	Lug-Solderless
2	800-0050	2	Screw-HHC(3/8-16x1)
3	851-0022	3	Conical Disc Spring(3/8)
4	337-1049	1	Neutral Bar
5	332-2448	2	Stand Off-Insulator
6	850-0050	3	Washer-LK(3/8)
7	800-0047	2	Screw-HHC(3/8-16x5/8)
8	862-0003	1	Nut-HEX(3/8-16)
9	518-0341	1	Compound-Joint(Electrical)
10	800-0051	1	Screw-HHC(3/8-16x1 1/4)

SELECTOR
SWITCHES

WIRING DIAGRAM POSITION	PART NO.	DESCRIPTION
S12	308-0809	3 position key operated NEMA 4
	308-0575	2 position key operated
	308-0576	3 position key operated 2-3 wire convertor
	308-0577	3 position key operated, key remove center
	308-0749	3 position key operated water tight
	308-0755	2 position key operated water tight
S13	308-0576	3 position key operated water tight
S15	308-0022	4 position knob operated
	308-0670	4 position knob operated voltmeter-ammeter
	308-0747	7 position knob operated voltmeter-ammeter
	308-0757	3 position knob operated water tight
	308-0786	5 position knob operated voltmeter-ammeter
S16	308-0776	3 position knob operated water tight

308-0787 Key-Selector switch
406-0565 Key-Door handle
406-0524 Handle-Locking Door

POWER
SUPPLY

OT B - /

REF. NO.	PART NO.	QTY.	PART DESCRIPTION
1	301-6697	1	Plate-Mounting
2	323-0804	1	Socket-Relay
3	307-1056	1	Relay-3PDT(K11)
4	812-0062	2	Screw-RHM(#6-32x7/16)
5	356-0047	1	Capacitor
6	898-0004	1	Sleeving-Insulation
7	305-0517	1	Rectifier-Bridge(CR1)
8	813-0102	1	Screw-RHM(#10-32x5/8)
9	304-0011	1	Resistor-Fixed(R1)
10	304-0292	1	Insulator-Resistor
11	304-0014	1	Washer-Centering
12	813-0112	1	Screw-RHM(#10-32x2 1/2)
13	315-0375	1	Transformer-Stepdown(T10)
14	812-0059	2	Screw-RHM(#6-32x1/4)
15	332-2003	1	Block-Terminal(TB10)
16	332-2426	1	Strip-Marker
17	812-0065	2	Screw-RHM(#6-32x5/8)
18	332-0942	8	Tie-Cable
19	98-4791	1	Silkscreen-Term Block

